Elk-1 (Phospho Thr417) Rabbit pAb

CatalogNo: YP0097 Comparable Abs

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,IF,IP,ELISA

MW
- 45kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

IHC 1:100-1:300
IP 2-5 ug/mg lysate
ELISA 1:10000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Elk1 around the phosphorylation site of Thr417. AA range:379-428

Specificity	Phospho-Elk-1 (T417) Polyclonal Antibody detects endogenous levels of Elk-1 protein only when phosphorylated at T417.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LStPV

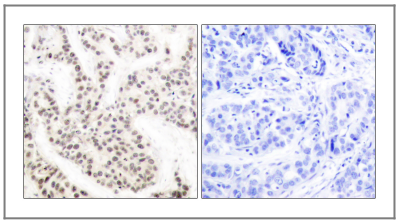
Target Information

Gene name	ELK1
Protein Name	ETS domain-containing protein Elk-1

Organism	Gene ID	UniProt ID
Human	2002;	P19419;
Mouse	13712;	P41969;

Cellular Localization	Nucleus.
Tissue specificity	Lung and testis.
Function	Function:Stimulates transcription. Binds to purine-rich DNA sequences. Can form a ternary complex with the serum response factor and the ETS and SRF motifs of the fos serum response element.,PTM:On mitogenic stimulation, phosphorylated on C-terminal serine and threonine residues by MAPK1. Ser-383 and Ser-389 are the preferred sites for MAPK1. In vitro, phosphorylation by MAPK1 potentiates ternary complex formation with the serum responses factors, SRE and SRF. Phosphorylation leads to loss of sumoylation and restores transcriptional activator activity.,PTM:Sumoylation represses transcriptional activator activity as it results in recruitment of HDAC2 to target gene promoters which leads to decreased histone acetylation and reduced transactivator activity. It also regulates nuclear retention.,similarity:Belongs to the ETS family.,similarity:Contains 1 ETS DNA-binding domain.,subunit:Interacts in its sumoylated form with PIAS2/PIASX which enhances its transcriptional activator activity.,tissue specificity:Lung and testis.,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Elk1 (Phospho-Thr417) Antibody. The picture on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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